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Jail**we*

16 October 1961

MEMORANDUM FOR THE RECORD

SUBJECT: Tests of Explosive Cloth (Knitted)

1. On 5 October 1961 a series of demonstration tests were made at the Engineer Proving Ground, Ft. Belvoir, Virginia, on experimental explosive cloth and threads. The explosive was developed by Picatinny Arsenal and the test was arranged by The following tests were made:

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	<u>Explosive</u>	<u>Weight</u>	<u>Primer</u>	<u>Target</u>	<u>Results</u>
1)	C-4	1 pound	J-2	7" wood pole	Complete Breakage
2)	Dry Flour	1 pound	J-2	7" wood pole	Complete Breakage
3)	Cloth	55 gms.	J-2	3/4" steel rod	No effect
4)	C-4	55 gms.	J-2	3/4" steel rod	Complete Breakage
5)	Spool Thread	4 ounces	J-2	3" I Beam	Complete Breakage
6)	Spool Thread	2 ounces	J-2	Closed 1 1/2" pipe	Complete Breakage
7)	C-4	2 ounces	J-2	Closed 1 1/2" pipe	Complete Breakage
8)	Cloth	384 gms.	J-2	6" Channel iron	Complete Breakage
9)	C-4	100 gms.	J-2	6" Channel iron	Complete Breakage
10)	Sheet Explosive	59 gms.	J-2	3" I Beam	Complete Breakage
11)	Spool Thread	2 ounces	No. 6	--	Hi Order
12)	Spool Thread	1 pound	J-2	7" pole	Complete Breakage
13)	Spool Thread	2 ounces	J-2	1/2" wire cable	No effect
14)	Spool Thread	6 ounces	J-2	1/2" wire cable	No effect
15)	2 ounces of Threaded Spool placed in 18" water for 2 minutes, initiated with J-2 Cap - High Order				
16)	Repeated test 15				
17)	Placed three sections of cloth 18" wide, overlapping stretched out on ground, wadded up one end for J-2 Cap. No propagation.				
18)	Fired into wadded up cloth with 30-06 Ball from 110 feet. Steel backing. Low order flame.				
19)	Fired 30-06 from 110 feet into cloth with wood backing. No effect.				
20)	Fired 2 hits 30-06 ball from 110 feet into 6 ounces spool thread. No effect.				

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cc:

 C/TSD/PTG/SD
 , WH/4/FI/SAB

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